Large Deployment of

SuperDoctor 5 on Windows

User's Guide

Revision 1.0d

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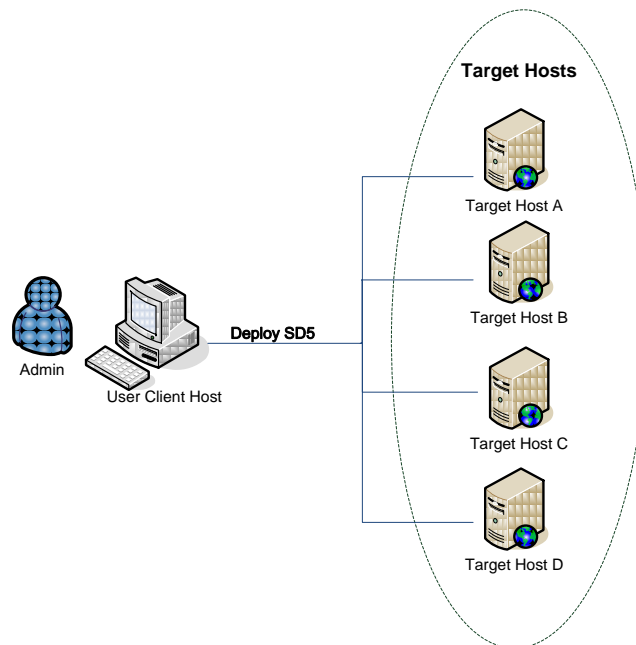Printed in the United States of America

Revision History

Date	Rev	Description
Feb-23-2013	1.0	1. Created User's Guide.
Jul-22-2013	1.0a	1. Changed product name of SSM Agent to SuperDoctor 5 (SD5).
Aug-25-2014	1.0b	1. Changed document layout and Supermicro logo.
May-30-2016	1.0c	1. Added notes for install.bat. 2. Changed the commands of installing SD5 and checking service status.
Dec-5-2016	1.0d	1. Changed figure and fixed typos.

Contents

1 Introduction

SuperDoctor 5 can be configured to run on one central host (the "user client host") and then be deployed to multiple hosts (the "target hosts"). The deployment program on the user client host will connect to target hosts, copy the installation files and begin installation without any user input. In this document we will guide you through the steps to remotely deploy SuperDoctor 5 to multiple systems running on Windows.

2 Prerequisites

2.1 Downloading PsTools

PsExec is part of PsTools, a suite of command-line tools that assist in managing local and remote systems. To remotely deploy SuperDoctor 5 to multiple systems, PsExec must be first installed on the user client host. To install PsExec, download and unzip PsTools from

http://download.sysinternals.com/files/PSTools.zip

2.2 Preparing Deployment Files

Before deploying SuperDoctor 5, you need to put both **SD5.exe** and **agent.cfg** on the user client host. You can find these two files on the installation DVD or our web site.

File name	Description
SD5.exe Note that it's recommended to rename the installer (e.g., SuperDoctor5Installer.exe) to a shorter name (e.g., SD5.exe) on Windows.	SuperDoctor 5 installer program
agent.cfg Note that it's recommended to rename the silent mode installation file (e.g., installer_agent.properties) to a shorter name (e.g., agent.cfg) on Windows.	Silent mode installation file

3 Getting Started

3.1 Editing the Silent Mode Installation File

The silent mode installation file (e.g., agent.cfg) is a property file that contains the necessary SuperDoctor 5 installation settings.

Most users can change the USER_INSTALL_DIR attribute to specify the installation. For details on this method, see *2.1.3 Silent Mode Installation* in *SuperDoctor 5 User's Guide*.

3.2 Creating install.bat to Install SD5

Open a text editor on Windows and create a file named install.bat. This file contains

SD5.exe -i silent -f agent.cfg

Note: The contents of install.bat may vary due to different uses. For example, if you want to remove the previously installed SD5 before installation, you can use the following command to uninstall in silent mode first.

"[previous SD5 install folder]\Uninstall\Uninstall.exe" -i silent
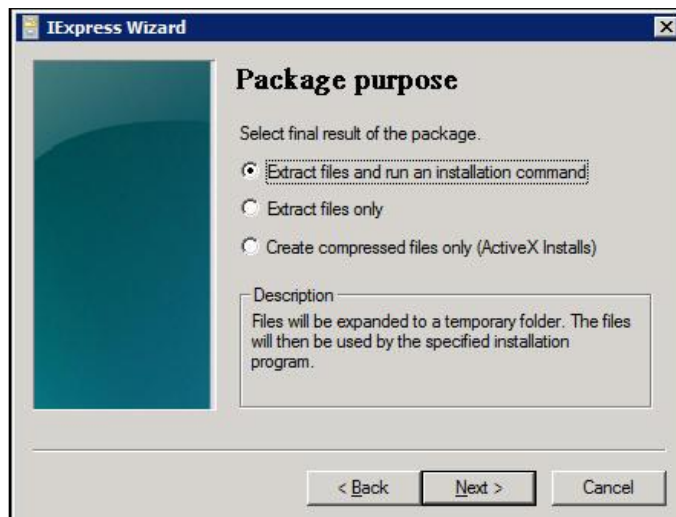

3.3 Creating an Installation Package

Now you need to create an independent executable file including SD5.exe, agent.cfg and install.bat. With iExpress, simply create an installation package of self-extracting files. Follow these steps:
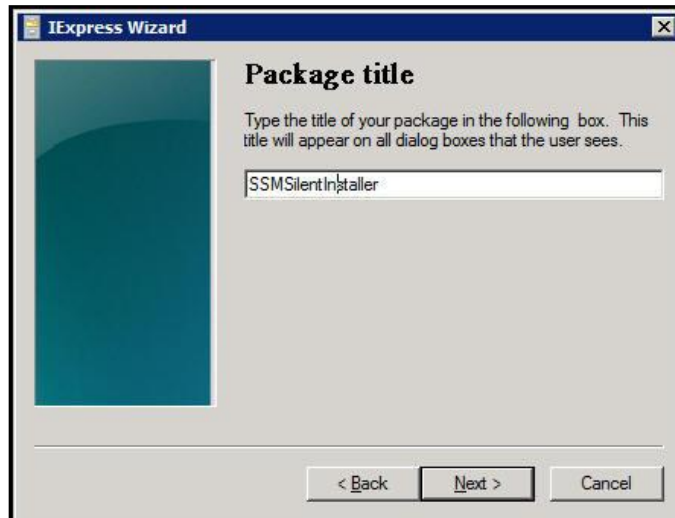
1. Click the **Start button** and type "iexpress" in the search field.
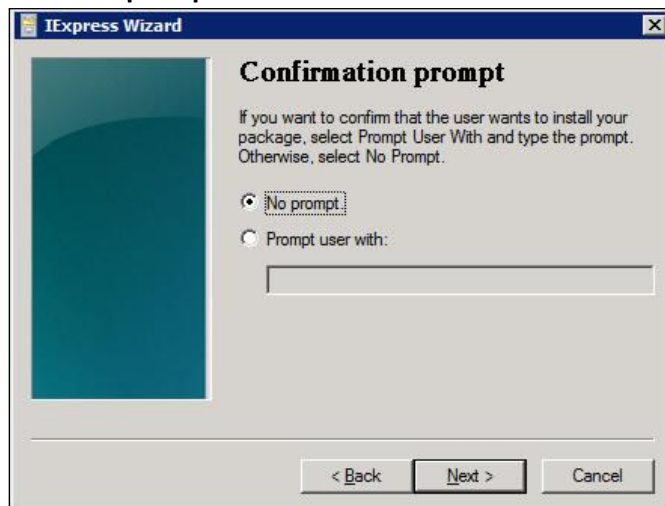2. In the dialogue box, select **Create new Self Extraction Directive file** and click **Next**.

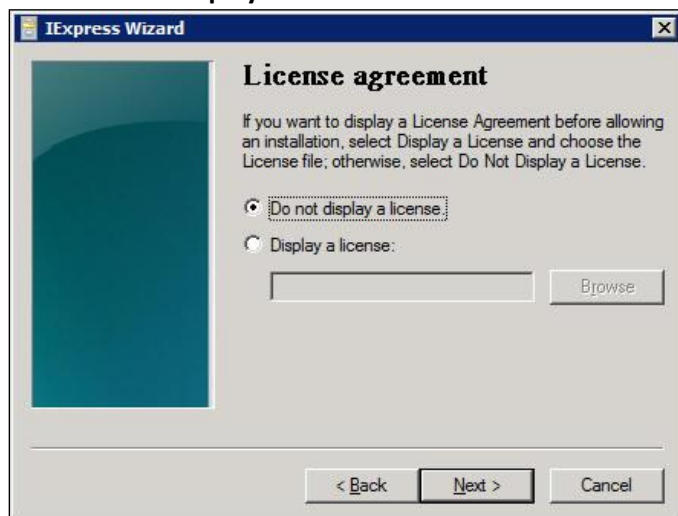3. Select **Extract Files and run an installation command** and click **Next**.

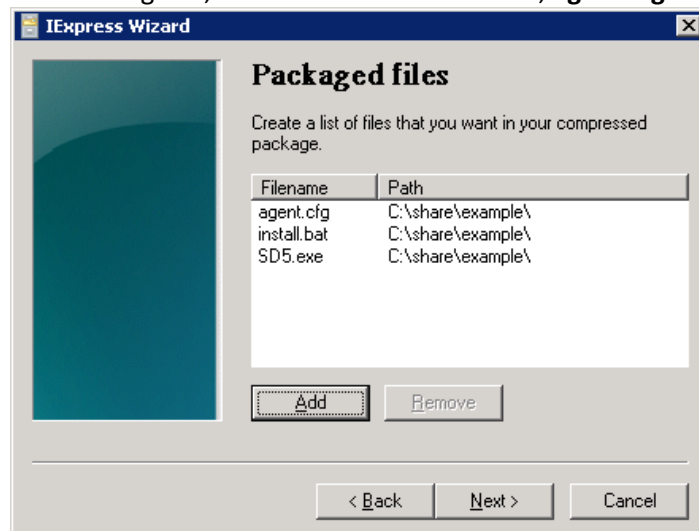4. Enter your package title and click **Next**.

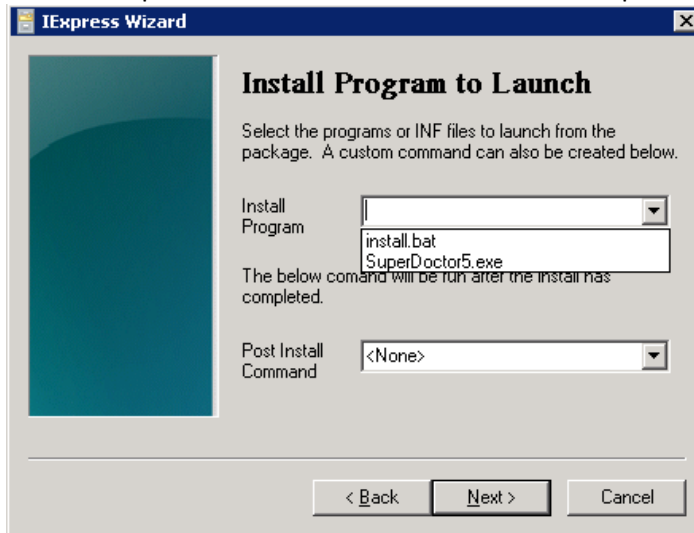5. Select **No prompt** and click **Next**.

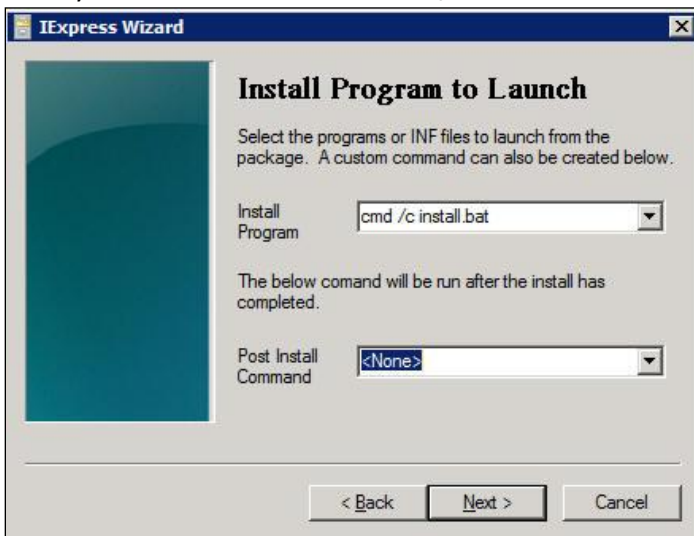6. Select **Do not display a license** and click **Next**.

7. In the dialog box, click **Add** to select **SD5.exe**, **agent.cfg** and **install.bat**. Then click **Next**.

8. Use the dropdown menu to select **install.bat** as the primary program for installation.
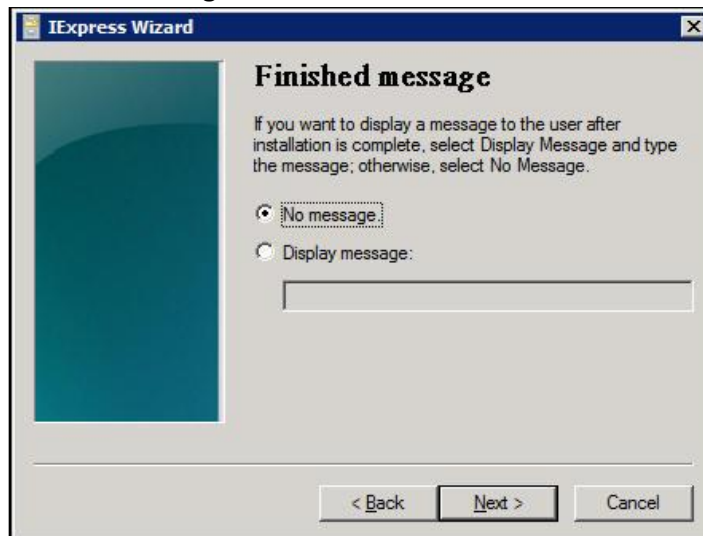

9. Modify the name in the field to **cmd /c install.bat** and click **Next**.

10. Select **Hidden** and click **Next**.
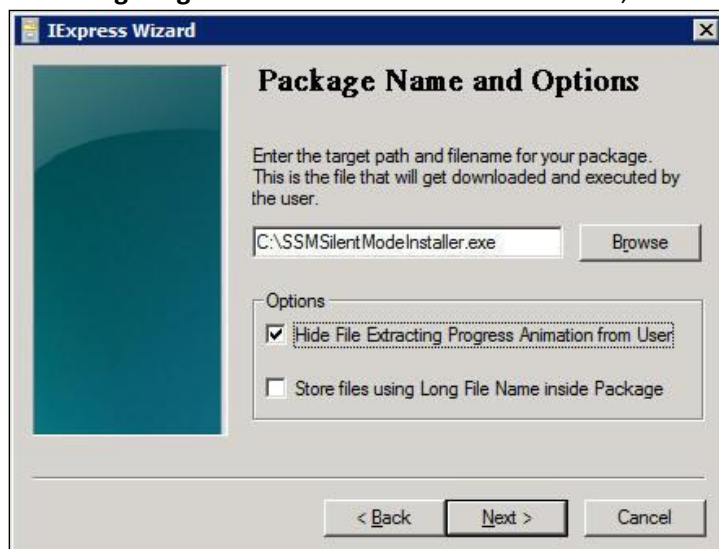

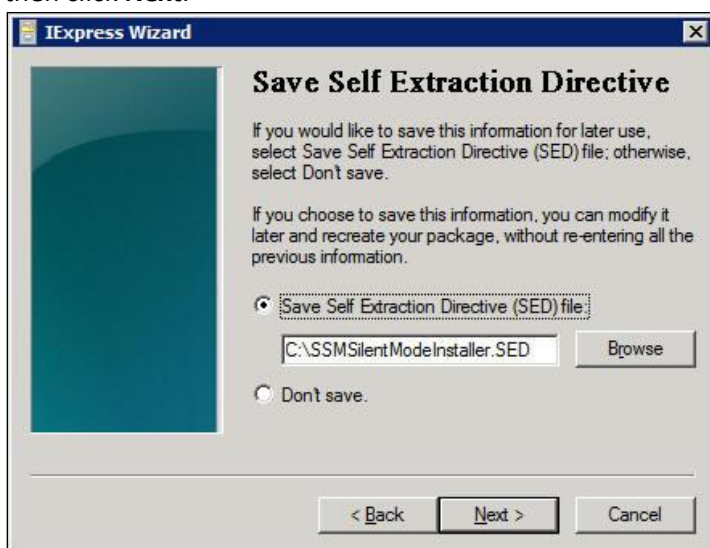11. Select **No message** and then click **Next**.

12. Type a filename with an executable file extension (e.g., C:\SSMSilentModeInstaller.exe) in the field to store the file or click **Browse** to overwrite an existing one. Meanwhile**,** click the **Hide File Extracting Progress Animation from User** checkbox, and then click **Next**.

13. Select **No restart** and click **Next**.

14. If you want to save these setting for later use**,** select **Save Self Extraction Directive (SED) file** and then click **Next**.

15. Click **Next** again to start creating the installation package. A Windows console will open briefly providing notification that the installation package was successfully created. Click **Finish** to exit.

3.4 Creating hosts.txt File

Afte creating an installation package, you need to create a hosts.txt file to list all target hosts for deploying SuperDoctor 5. The example below shows what may be in the hosts.txt file:

10.134.14.30

10.134.14.35

………

3.5 Starting Deployment

Open a terminal console on the user client host and run the following command to start deploying. Note that SSMSilentInstaller.exe (see *3.3 Creating an Installation Package*) and hosts.txt (see *3.4 Creating hosts.txt File*) should be placed in the same folder with the PsExec program.

psexec @hosts.txt –u [user account] –p [user password] -f –d -c SSMSilentInstaller.exe

The figure below shows that the user client host will sequentially connect to target hosts listed in the hosts.txt, copy files to remote hosts and start SuperDoctor 5 installation.

```
C:\>PsExec.exe @hosts.txt -u administrator -p 123456 -f -d -c SSMSilentModeInstaller.EXE

PsExec v1.98 - Execute processes remotely
Copyright (C) 2001-2010 Mark Russinovich
Sysinternals - www.sysinternals.com

\\10.134.14.30:

SSMSilentModeInstaller.EXE started on 10.134.14.30 with process ID 1720.
\\10.134.14.35:

SSMSilentModeInstaller.EXE started on 10.134.14.35 with process ID 5352.
```

Each deployment to a target host will respond with a process ID.

After all hosts are installed with SD5, use the following commands to remotely check if SD5 service is running.

```
C:\>PsExec.exe @hosts.txt -u administrator -p 123456 sc query sd5

PsExec v1.98 - Execute processes remotely
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\\10.134.14.30:

SERVICE_NAME: sd5
        TYPE               : 10  WIN32_OWN_PROCESS
        STATE              : 4   RUNNING
                                 (STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)
        WIN32_EXIT_CODE    : 0   (0x0)
        SERVICE_EXIT_CODE  : 0   (0x0)
        CHECKPOINT         : 0x0
        WAIT_HINT          : 0x0
sc exited on 10.134.14.30 with error code 0.
\\10.134.14.35:

SERVICE_NAME: sd5
        TYPE               : 10  WIN32_OWN_PROCESS
        STATE              : 4   RUNNING
                                 (STOPPABLE, NOT_PAUSABLE, ACCEPTS_SHUTDOWN)
        WIN32_EXIT_CODE    : 0   (0x0)
        SERVICE_EXIT_CODE  : 0   (0x0)
        CHECKPOINT         : 0x0
        WAIT_HINT          : 0x0
sc exited on 10.134.14.35 with error code 0.
```

For details on parameters and features of PsExec, go to http://technet.microsoft.com/en-us/sysinternals/bb897553.

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